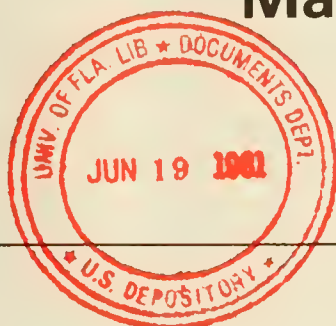




U.S. Department of Commerce
BUREAU OF THE CENSUS



Manufacturers' Shipments, Inventories, and Orders

MARCH 1981

M3-1(81)-3

For Wire Transmission 2:30 P.M. E.D.T. Thursday, April 30, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in March increased \$2.1 billion or 1.3 percent to \$164.9 billion the Department of Commerce, Bureau of the Census reported today. Except for a slight decline in January, the value of new orders has been increasing since last June at a compounded rate of 1.9 percent per month.

New orders for durable goods for March increased \$2.4 billion or 2.9 percent to \$84.6 billion, revised upward from the 1.3 percent increase reported earlier. An increase in new orders for aircraft and parts of \$1.8 billion accounted for over 75 percent of the durable goods new order increase. Excluding the aircraft industry, new orders for durable goods were up 0.7 percent.

New orders for nondefense capital goods, increased 15.8 percent in March to \$23.8 billion, following a 16 percent decline in February. Although most of the components of the nondefense capital goods category reported order increases in March, over three-fourths of the \$3.2 billion increase was attributable to orders for aircraft and parts. New orders for defense capital goods were down \$0.6 billion or 10.6 percent to \$5.1 billion, following a 35 percent increase last month.

The value of shipments of manufactured goods in March was \$162.6 billion, up \$1.0 billion or 0.6 percent from February. A \$1.3 billion increase in durable goods shipments was partially offset by a \$0.4 billion decline in nondurable goods shipments. Within the durable goods category, the largest increases were reported by the aircraft industry, up \$0.9 billion or 20 percent to \$5.1 billion; and the motor vehicle industry up \$0.7 billion or 7.6 percent to \$10.1 billion. This is the second month in a row motor vehicle shipments have increased following declines in January, December, and November of 5.7 percent, 0.7 percent, and 2.6 percent, respectively.

A significant decline in shipments was reported by primary metals producers as steel shipments declined \$0.4 billion or

6.1 percent to \$5.8 billion, and nonferrous metal shipments dropped \$0.3 billion or 6.6 percent to \$4.8 billion.

Shipments by the nondurable goods industries declined for the second consecutive month. March shipments were down \$0.4 billion or 0.4 percent to \$80.2 billion, following a February decline of 0.4 percent. Major declines in the petroleum industry, down \$0.4 billion or 2.3 percent and the food products industry, down \$0.3 billion or 1.4 percent, more than offset increases in the chemicals and printing and publishing industries.

The unfilled orders level of manufacturers increased in March by \$2.3 billion or 0.8 percent to \$295.1 billion. In addition to a \$1.0 billion increase in the backlog of aircraft orders, the orders backlog for electrical machinery increased by \$0.5 billion or 1.2 percent to \$41.6 billion, and for fabricated metal products by \$0.3 billion or 1.2 percent to \$27.8 billion.

The book value of manufacturers' inventories in March was \$253.3 billion, an increase of \$2.1 billion or 0.8 percent from February. Almost one-half of this increase occurred in the petroleum industry where the value of inventories increased \$0.9 billion or 9.7 percent to \$10.1 billion. The inventory level of manufacturers in the nondefense capital goods category showed a decline for the month of 0.2 percent. Despite the large increase in the inventory value of the petroleum industry, the inventory to shipments ratio for all manufacturers in March remained the same as February at 1.56.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for April is scheduled for release on May 21, 1981, and the full report is scheduled for release on June 2, 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted						Not seasonally adjusted ¹													
		Monthly			Quarterly			Last 4 months				Monthly				Last 4 months a year ago				Annual	
		Mar. 1981 ^p	Feb. 1981 ^r	Jan. 1981	Dec. 1980	I 1981	IV 1980	III 1980	Mar. 1981 ^p	Feb. 1981 ^r	Jan. 1981	Dec. 1980	Mar. 1980	Feb. 1980	Jan. 1980	Dec. 1979	1980	1979			
TOTALS		162,583	161,620	161,148	159,323	485,351	473,742	445,085	169,835	162,524	148,161	152,455	157,049	153,732	139,629	139,658	1,798,539	1,692,001			
	All manufacturing industries.....																				
	Manufacturing industries excluding transportation.....	145,543	146,086	145,806	143,486	437,435	425,355	400,510	151,186	146,589	134,266	137,444	140,681	137,458	125,776	125,698	1,619,352	1,497,540			
	Manufacturing industries with unfilled orders.....	85,904	84,227	83,065	82,642	253,196	246,411	231,534	90,017	84,402	75,498	79,659	83,171	80,987	73,071	73,390	941,448	893,021			
	Durable goods industries.....	82,397	81,078	80,259	80,027	243,734	239,265	221,172	87,621	80,959	72,215	76,053	80,897	79,116	70,187	70,347	902,723	887,777			
	Durable goods with unfilled orders.....	69,318	67,965	67,169	66,896	204,452	199,297	185,402	73,118	67,954	60,725	64,585	67,645	65,590	58,514	59,377	757,071	722,730			
	Nondurable goods industries.....	80,186	80,542	80,889	79,296	241,617	234,477	223,913	82,214	81,565	75,946	76,402	76,152	74,616	69,442	69,311	895,816	804,224			
	Nondurable goods with unfilled orders.....	16,586	16,262	15,896	15,746	48,744	47,114	46,132	16,899	16,448	14,773	15,134	15,526	15,397	14,557	14,013	184,377	170,291			
MARKET CATEGORIES																					
	Home goods and apparel.....	11,935	12,048	11,682	11,251	35,665	34,306	32,790	12,334	11,926	10,020	9,914	11,540	11,519	9,918	9,766	133,379	125,723			
	Consumer staples.....	27,717	28,444	28,547	29,038	84,708	84,911	83,855	28,315	28,532	26,700	28,592	26,683	26,012	24,179	26,071	324,748	298,916			
	Equipment and defense products, except automotive.....	24,650	23,115	23,442	22,771	71,207	68,430	66,300	26,207	23,259	20,963	23,589	23,289	22,102	18,938	21,743	263,897	236,754			
	Automotive equipment.....	11,878	11,347	10,969	11,478	34,194	34,916	31,439	13,335	11,554	10,156	10,026	11,837	12,080	10,483	9,537	127,266	151,020			
	Construction materials, supplies, and intermediate products.....	13,636	13,685	13,703	13,613	41,024	40,249	35,992	13,673	12,740	11,299	12,356	12,049	12,162	11,092	11,423	147,692	148,806			
	Other materials, supplies, and intermediate products.....	72,767	72,981	72,805	71,172	218,553	210,930	194,460	75,971	74,513	69,023	67,978	71,651	69,857	65,019	61,118	801,557	730,782			
SUPPLEMENTARY SERIES ²																					
	Household durable goods indus- tries.....	5,367	5,374	5,149	5,009	15,890	15,219	14,501	5,616	5,285	4,389	4,640	5,132	5,079	4,393	4,384	58,835	55,938			
	Capital goods industries.....	27,361	25,856	26,129	25,498	79,346	76,832	73,869	28,889	26,264	23,496	26,432	26,254	25,102	21,645	24,205	296,226	267,807			
	Nondefense.....	23,034	21,937	22,443	21,772	67,414	65,472	63,294	24,502	22,338	20,134	22,456	22,825	21,853	18,836	20,804	254,381	232,315			
	Defense.....	4,327	3,919	3,686	3,726	11,932	11,360	10,575	4,387	3,926	3,362	3,976	3,429	3,249	2,809	3,401	41,845	35,492			
INDUSTRY GROUPS AND INDUSTRIES																					
	Durable goods industries:																				
32	Stone, clay, and glass	4,467	4,614	4,536	4,567	13,617	13,235	12,281	4,584	4,225	3,759	3,968	3,999	3,858	3,756	3,576	49,509	48,185			
322	Products.....	393	422	422	412	1,237	1,212	1,224	465	403	378	374	402	355	326	310	4,617	3,989			
33	Glass containers.....	11,786	12,493	12,530	12,586	36,809	36,667	32,184	12,916	12,588	11,663	11,305	13,355	12,944	12,208	10,699	137,984	140,122			
331	Primary metals.....	5,838	6,217	6,205	6,635	18,260	18,697	14,221	6,568	6,279	5,926	5,819	6,477	5,922	5,605	4,927	64,447	68,663			
333-9	Blast furnaces, steel mills..																				
	Nonferrous and other primary metals.....	4,803	5,142	5,175	4,863	15,120	14,712	15,135	5,153	5,168	4,694	4,518	5,662	5,849	5,495	4,750	60,946	58,001			
34	Fabricated metal products.....	10,224	10,097	9,818	10,233	30,139	30,078	26,892	10,538	9,991	8,846	9,573	9,693	9,570	8,568	8,607	111,466	109,463			
341	Metal cans, barrels, and drums.....	831	870	851	895	2,552	2,505	2,360	805	823	692	708	863	783	718	657	9,806	10,046			
35	Machinery, except electrical...	15,619	15,248	15,562	14,729	46,429	44,128	42,099	16,974	15,560	14,153	14,922	15,286	14,659	12,736	13,742	169,318	157,695			
351	Engines and turbines.....	1,178	1,225	1,356	1,135	3,759	3,522	3,297	1,412	1,304	1,237	1,138	1,244	1,171	1,122	969	13,362	13,156			
352	Farm machinery and equipment	1,150	1,083	1,196	1,145	3,429	3,479	3,281	1,400	1,155	1,131	956	1,196	1,194	1,039	984	12,967	13,258			
353	Construction, mining, and material-handling equipment..	2,691	2,766	2,764	2,676	8,221	7,697	7,658	2,825	2,836	2,607	2,478	2,990	2,948	2,617	2,502	31,534	31,813			
354	Metalworking machinery.....	941	978	931	968	2,850	2,903	2,584	1,068	1,018	826	1,007	1,031	927	767	846	10,789	9,497			
356	General industrial machinery.	1,353	1,207	1,142	1,226	3,702	3,722	3,384	1,413	1,240	1,020	1,242	1,243	1,251	1,091	1,144	14,463	13,245			

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted				Not seasonally adjusted ¹												Annual	
		Monthly				Quarterly	Monthly												
		Mar. 1981 ²	Feb. 1981 ²	Jan. 1981	Dec. 1980	I 1981	IV 1980	III 1980	Last 4 months				Last 4 months a year ago						
									Mar. 1981 ²	Feb. 1981 ²	Jan. 1981	Dec. 1980	Mar. 1980	Feb. 1980	Jan. 1980	Dec. 1979			
36	INDUSTRY GROUPS AND INDUSTRIES-- Continued	11,233	10,917	10,681	10,384	32,831	31,944	30,742	11,550	11,061	9,784	10,375	10,778	10,617	9,204	9,720	123,390	110,713	
361,2																			
363		Electrical machinery.....	2,000	1,706	1,650	1,845	5,356	5,447	5,142	1,965	1,825	1,572	1,745	2,004	1,883	1,609	1,534	20,984	19,915
365		Electrical transmission and distribution equipment.....	1,177	1,257	1,302	1,179	3,736	3,648	3,294	1,248	1,238	1,095	1,085	1,199	1,164	1,077	1,064	13,544	12,814
366		Household appliances.....	899	863	827	733	2,589	2,314	2,212	852	868	681	755	648	711	520	606	8,498	7,648
367		Radio and TV.....	3,344	3,279	3,171	3,020	9,794	9,435	9,418	3,608	3,274	2,926	3,141	3,175	3,274	2,598	3,183	36,995	32,143
368		Communication equipment.....	1,934	1,924	1,835	1,825	5,693	5,615	5,518	1,987	1,955	1,736	1,810	1,911	1,826	1,608	1,563	21,973	17,820
37		Electronic components.....	17,060	15,534	15,342	15,837	47,916	48,367	44,575	18,649	15,935	13,895	15,011	16,368	16,274	13,853	13,960	179,187	194,461
371		Transportation equipment.....	10,057	9,347	9,061	9,607	28,465	29,222	26,243	11,319	9,675	8,568	8,487	9,938	10,224	8,832	8,003	106,030	129,364
372,6		Motor vehicles and parts.....																	
373,6	Aircraft, missiles, and parts.....	5,148	4,295	4,489	4,508	13,932	13,962	12,942	5,431	4,428	3,798	4,791	4,286	3,999	3,219	4,049	51,134	43,804	
3731	Shipbuilding and military tank vehicles.....	870	855	842	773	2,567	2,212	2,459	829	809	736	873	885	798	769	946	9,738	8,693	
38	Instruments and related products.....	3,850	3,809	3,691	3,735	11,350	10,984	10,463	3,935	3,676	3,324	3,714	3,719	3,485	3,030	3,248	42,026	36,253	
381-4	Scientific and engineering...Photographic goods.....	2,262	2,130	2,139	2,207	6,531	6,370	5,994	2,355	2,113	2,019	2,167	2,183	1,993	1,832	1,928	24,156	21,082	
386		1,386	1,478	1,372	1,329	4,236	4,077	3,946	1,367	1,368	1,145	1,377	1,352	1,304	1,034	1,151	15,750	12,757	
24	All other durable goods industries.....																		
25																			
25																			
25																			
25																			
25																			
25																			
25																			
25																			
25																			
20	Nondurable goods industries:																		
20		Food and kindred products.....	21,689	22,003	22,278	22,378	65,970	66,318	65,186	22,291	22,271	20,963	22,204	20,942	20,391	18,903	20,352	252,071	234,828
201		Meat products.....	5,251	5,449	5,479	5,467	16,179	16,429	15,499	5,235	5,362	5,359	5,522	4,777	4,905	4,770	5,292	60,124	62,002
208		Beverages.....	2,372	2,586	2,576	2,495	7,534	7,652	8,190	2,417	2,279	2,128	2,265	2,448	2,248	2,114	2,215	31,134	27,659
207		Fats and oils.....	1,998	1,724	1,862	1,858	5,584	5,433	5,070	2,030	1,826	1,835	1,815	1,754	1,745	1,599	1,558	19,866	19,322
203-6,9		All other foods.....	8,912	9,175	9,343	9,552	27,430	27,991	27,351	9,438	9,680	8,726	9,638	9,048	8,664	7,698	8,554	105,775	93,878
21		Tobacco products.....	1,159	1,259	1,196	1,264	3,614	3,666	3,542	1,134	1,169	1,146	1,281	1,019	1,061	1,002	1,052	13,784	12,173
22		Textile mill products.....	4,401	4,383	4,273	3,995	13,057	12,082	11,924	4,688	4,317	3,886	3,824	4,441	4,258	3,814	3,786	48,780	46,992
26		Paper and allied products.....	6,358	6,325	6,191	6,201	18,874	18,261	17,791	6,544	6,448	5,824	5,720	6,032	5,969	5,705	5,156	70,991	66,033
261-3		Pulp, paper, etc.....	3,005	3,024	2,892	2,969	8,921	8,632	8,358	3,106	3,036	2,734	2,773	2,838	2,813	2,583	2,488	33,462	30,165
265	Paperboard containers.....	1,464	1,474	1,406	1,395	4,344	4,086	3,867	1,475	1,481	1,323	1,264	1,394	1,381	1,302	1,110	13,913	14,557	
264	All other paper products.....	1,889	1,827	1,893	1,837	5,609	5,563	5,566	1,923	1,931	1,767	1,683	1,800	1,775	1,820	1,558	21,616	21,311	
28	Chemicals and allied products.....	15,357	15,020	15,286	15,589	45,663	43,871	39,699	16,438	15,352	14,166	14,301	14,766	13,837	12,918	12,533	162,390	149,181	
281,6	Industrial chemicals, except pigments.....	5,574	5,348	5,227	5,256	16,149	15,050	13,200	6,064	5,578	4,956	4,951	5,370	5,010	4,658	4,331	56,003	51,793	
283,4	Drugs, soap, and toiletries.....	3,771	3,905	4,038	4,286	11,714	11,818	11,802	3,997	3,987	3,815	4,020	3,849	3,608	3,322	3,502	45,303	40,147	
29	Petroleum and coal products.....	16,365	16,744	16,964	15,361	50,073	45,989	42,639	16,063	17,069	16,844	15,748	14,578	14,568	13,827	13,469	175,533	134,041	
30	Rubber and plastics products, n.e.c.....																		
23	All other nondurable goods industries.....	3,417	3,506	3,664	3,574	10,587	11,180	11,088	3,641	3,557	3,330	3,239	3,879	3,930	3,677	3,279	43,995	44,742	
23																			
21		11,440	11,302	11,037	10,934	33,779	33,110	32,044	11,415	11,382	9,807	10,085	10,495	10,602	9,596	9,664	128,272	116,234	

¹Preliminary. ²Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations: unfilled orders and inventories as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture: kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.
Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the MA-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Oriented Industries"), for the specified industries.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹												Annual	
		Monthly						Quarterly						Monthly													
		Mar. 1981p	Feb. 1981r	Jan. 1981	Dec. 1980	I 1981	IV 1980	III 1980	Last 4 months			Last 4 months a year ago			1980	1979											
									Mar. 1981p	Feb. 1981r	Jan. 1981	Dec. 1980	Mar. 1980	Feb. 1980			Jan. 1980	Dec. 1979									
	TOTALS	164,865	162,759	162,090	162,157	489,714	478,986	449,546	172,280	164,906	152,101	154,798	159,145	156,942	145,943	142,086	1,809,772	1,732,015									
	ALL manufacturing industries.....	146,715	146,931	145,926	144,908	439,572	430,853	401,522	153,038	149,107	136,388	138,645	142,004	140,810	129,982	126,056	1,620,580	1,515,492									
	Manufacturing industries excluding transportation.....	88,186	85,366	84,007	85,476	257,559	231,655	235,995	92,462	86,784	79,438	82,002	85,267	84,197	79,385	75,818	952,681	933,035									
	Manufacturing industries with unfilled orders.....	84,577	82,209	81,336	82,654	248,122	244,394	225,417	89,987	83,104	76,042	78,431	82,642	82,230	76,232	73,106	914,731	926,580									
	Durable goods industries.....	71,498	69,096	68,246	69,523	208,840	204,426	189,647	75,484	70,099	64,552	66,903	69,390	68,704	64,559	62,136	769,079	761,533									
	Durable goods with unfilled orders.....	80,288	80,550	80,754	79,503	241,592	234,592	224,129	82,293	81,802	76,059	76,367	76,503	74,712	69,711	68,980	895,041	805,435									
	Nondurable goods industries.....	16,688	16,270	15,761	15,953	48,719	47,229	46,348	16,978	16,685	14,886	15,099	15,877	15,493	14,826	13,682	183,602	171,502									
	Industries with unfilled orders.....	63,600	64,280	64,993	63,550	192,873	187,363	177,781	65,315	65,117	61,173	61,268	60,626	59,219	54,885	55,298	711,439	633,933									
	Industries without unfilled orders.....																										
	MARKET CATEGORIES																										
	Home goods and apparel.....	12,041	12,386	11,821	11,249	36,248	34,143	32,675	12,494	12,334	10,167	9,781	11,630	11,676	9,935	9,479	132,744	126,005									
	Consumer staples.....	27,750	28,437	28,558	29,046	84,745	84,890	83,844	28,319	28,518	26,773	28,592	26,695	26,020	24,233	26,060	324,792	298,939									
	Equipment and defense products, except automotive.....	26,087	23,818	25,848	25,073	75,753	70,708	68,499	27,205	23,712	24,058	25,886	24,458	22,266	22,366	23,988	275,139	258,447									
	Automotive equipment.....	11,943	11,603	11,026	11,546	34,572	35,379	31,503	13,372	11,738	10,398	10,066	11,498	12,101	10,364	9,410	125,609	149,571									
	Construction materials, supplies, and intermediate products.....	13,941	13,640	13,551	13,666	41,132	40,376	35,450	13,940	12,752	11,397	12,382	12,251	12,374	10,836	11,660	146,812	149,383									
	Other materials, supplies, and intermediate products.....	73,103	72,875	71,286	71,577	217,264	213,490	197,326	77,448	75,852	69,308	68,091	72,613	72,505	68,339	61,489	804,676	749,670									
	SUPPLEMENTARY SERIES ²																										
	Household durable goods industries.....	5,463	5,753	5,322	5,005	16,538	14,959	14,347	5,744	5,739	4,533	4,559	5,236	5,270	4,434	4,194	58,385	55,939									
	Capital goods industries.....	28,897	26,247	28,706	27,498	83,850	78,326	77,178	29,873	26,598	27,171	27,889	28,081	25,753	25,823	26,420	310,613	299,216									
	Nondefense.....	23,838	20,590	24,513	21,673	68,941	64,140	61,839	24,918	21,347	22,701	22,026	23,574	22,413	22,277	22,571	255,638	259,721									
	Defense.....	5,059	5,657	4,193	5,825	14,909	14,186	15,339	4,955	5,251	4,470	5,863	4,507	3,340	3,566	3,849	55,025	39,495									
	INDUSTRY GROUPS AND INDUSTRIES																										
	Durable goods industries:	4,437	4,641	4,471	4,496	13,549	13,261	12,131	4,599	4,261	3,806	3,922	4,134	3,904	3,914	3,562	49,186	48,145									
32	Stone, clay, and glass.....	12,048	12,412	10,977	12,899	35,437	39,673	34,777	13,799	13,514	11,247	12,183	12,869	14,193	13,669	10,903	138,680	142,882									
33	Primary metals.....	6,130	6,170	5,208	6,784	17,508	21,038	16,620	7,199	7,099	5,669	6,169	6,174	6,812	6,180	4,654	65,461	69,121									
331	Blast furnaces, steel mills, nonferrous and other primary metal products.....	4,810	5,181	4,674	5,008	14,665	15,358	15,436	5,442	5,361	4,551	5,016	5,495	6,154	6,227	5,205	61,144	59,802									
333-5,9	Fabricated metal products.....	10,542	10,124	9,705	10,534	30,371	30,519	26,646	10,806	9,891	8,329	9,754	9,977	9,986	8,330	8,964	110,702	111,622									
34	Machinery, except electrical.....	15,558	15,281	16,545	15,100	47,384	44,728	41,925	16,998	15,933	15,245	15,024	15,308	14,945	14,153	13,802	167,668	163,304									
35	Engines and turbines.....	1,232	1,187	1,170	956	4,129	3,589	3,298	1,465	1,245	1,444	1,157	1,238	1,090	1,169	1,081	13,208	13,174									
351	Construction, mining, and material-handling equipment.....	2,949	3,071	3,171	3,016	9,191	8,420	7,745	3,142	3,158	3,056	2,916	3,036	3,108	2,977	2,734	31,887	32,301									
354	Material-handling equipment.....	763	823	1,000	953	2,586	2,568	2,254	912	879	831	901	1,231	1,126	982	867	11,486	11,562									
356	General industrial machinery.....	1,371	1,139	1,381	1,173	3,891	3,633	3,237	1,414	1,247	1,269	1,128	1,351	1,195	1,195	977	13,453	13,491									

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted						Not seasonally adjusted ¹										Annual	
		Monthly			Quarterly			Monthly											
		Mar. 1981 ^b	Feb. 1981 ^c	Jan. 1981	Dec. 1980	I 1981	IV 1980	III 1980	Last 4 months					Last 4 months a year ago					
									Mar. 1981 ^d	Feb. 1981 ^e	Jan. 1981	Dec. 1980	Mar. 1980	Feb. 1980	Jan. 1980	Dec. 1979			
	INDUSTRY GROUPS AND INDUSTRIES-- Continued																		
	Durable goods industries-- Continued																		
36	Electrical machinery.....	11,731	11,542	11,420	10,565	34,693	33,122	30,444	11,923	11,749	10,831	10,344	11,461	11,680	10,062	9,837	127,506	115,785	
361, 2	Electrical transmission and distribution equipment and industrial apparatus.....	2,085	1,810	1,860	1,905	5,755	5,506	4,969	2,045	1,959	1,882	1,744	2,047	2,048	1,647	1,519	21,330	20,653	
363	Household appliances.....	1,195	1,281	1,259	1,158	3,735	3,601	3,439	1,255	1,287	1,116	1,082	1,185	1,176	1,090	1,057	13,602	12,758	
365	Radio and TV.....	863	1,037	1,063	785	2,763	2,189	2,234	800	1,047	688	815	555	500	500	587	8,448	7,445	
366	Communication equipment.....	3,773	3,495	3,766	3,348	11,034	10,780	9,712	3,867	3,421	3,597	3,432	3,632	3,527	3,115	3,282	40,922	34,076	
367	Electronic components.....	1,942	1,994	1,695	1,619	5,631	5,564	4,950	2,055	2,104	1,720	1,485	2,177	2,194	1,926	1,660	21,865	20,416	
37	Transportation equipment.....	18,150	15,828	16,164	17,169	50,142	48,133	48,024	19,242	15,799	15,713	16,153	17,161	16,132	15,961	16,030	189,192	216,523	
372, 6	Aircraft, missiles, and parts.....	6,178	4,361	5,467	4,997	16,006	12,907	14,748	5,957	4,028	5,327	5,336	5,315	4,130	5,547	6,286	62,897	65,796	
3731	Shipbuilding and military tank vehicles.....	940	1,091	856	1,689	2,887	3,041	4,457	981	1,089	999	1,513	1,209	732	744	989	12,415	8,964	
3795	Instruments and related products.....	3,800	3,837	3,763	3,909	11,400	11,090	10,401	3,941	3,702	3,343	3,944	3,828	3,630	3,251	3,359	42,380	37,149	
38	All other durable goods industries.....	8,311	8,544	8,291	8,002	25,146	23,868	21,669	8,681	8,255	6,928	7,110	7,924	7,760	6,892	6,649	89,437	91,170	

Preliminary. Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; optical goods, watches, and clocks and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft, and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the MA-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Oriented Industries"), for the specified industries.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

		(Millions of dollars)														
		Seasonally adjusted						Not seasonally adjusted ¹								
SIC	Industry	Monthly				Quarterly				Monthly						
										Last 4 months		Last 4 months a year ago				
		Mar. 1981 ^p	Feb. 1981 ^r	Jan. 1981	Dec. 1980	III 1980	II 1980	I 1980	IV 1979	III 1979	Mar. 1981 ^p	Feb. 1981 ^r	Jan. 1980	Dec. 1979		
	TOTALS															
	All manufacturing industries.....	295,094	292,813	291,677	290,735	285,497	281,044	286,907	279,710	273,033	297,141	294,696	288,372	288,770	283,465	277,153
	Manufacturing industries excluding transportation.....	180,062	178,892	178,050	177,930	172,439	171,433	181,265	176,804	174,193	181,418	179,565	177,046	174,923	182,588	173,713
	Durable goods industries.....	284,130	281,953	280,825	279,746	274,622	270,383	274,884	267,879	261,742	286,112	283,746	281,600	277,772	276,676	265,777
	Nondurable goods industries.....	10,964	10,860	10,852	10,989	10,875	10,661	12,023	11,831	11,291	11,029	10,950	10,713	10,600	11,740	11,376
	MARKET CATEGORIES															
	Home goods, apparel and consumer staples.....	4,551	4,414	4,084	3,934	4,120	4,247	4,717	4,630	4,966	4,407	4,242	3,947	3,627	4,459	4,233
	Equipment and defense products, except automotive.....	169,331	167,829	166,872	164,410	161,670	159,412	159,073	154,999	150,912	169,826	168,794	168,157	164,819	159,429	155,241
	Construction materials, supplies, and intermediate products.....	20,118	19,814	19,859	20,009	19,883	20,423	20,771	20,910	21,130	20,144	19,876	19,863	19,765	20,804	20,391
	Other materials, supplies, and intermediate products.....	101,094	100,756	100,862	102,382	99,824	96,962	102,346	99,171	96,026	102,764	101,784	100,446	100,161	103,973	97,041
	SUPPLEMENTARY SERIES ²															
	Household durable goods indus- tries.....	3,615	3,522	3,144	2,971	3,233	3,387	3,680	3,475	3,923	3,475	3,365	2,891	2,748	3,535	3,199
	Capital goods industries.....	198,121	196,582	196,194	193,616	192,126	188,821	185,519	179,310	172,754	198,775	197,795	197,462	193,785	186,009	179,536
	Nondefense.....	134,543	133,738	135,087	133,017	134,355	135,810	136,118	131,819	126,755	134,806	134,393	135,385	132,815	136,312	131,567
	Defense.....	63,578	62,844	61,107	60,599	57,771	53,011	49,401	47,492	46,000	63,969	63,402	62,077	60,970	49,697	47,789
	INDUSTRY GROUPS AND INDUSTRIES															
	Durable goods industries:															
32	Stone, clay, and glass.....	2,509	2,540	2,514	2,578	2,553	2,702	3,066	2,917	3,080	2,552	2,536	2,499	2,453	3,116	2,778
33	Primary metals.....	29,365	29,105	29,185	30,738	27,731	25,139	29,528	29,962	30,276	30,829	29,946	29,028	29,435	31,449	28,737
331	Blat furnaces, steel mills... Nonferrous and other primary metal products.....	18,344	18,053	18,100	19,097	16,756	14,358	17,349	18,007	18,877	19,280	18,649	17,820	18,085	18,537	17,071
333-339	Fabricated metal products.....	9,084	9,077	9,038	9,539	8,892	8,591	9,397	9,334	8,861	9,602	9,313	9,120	9,263	9,933	9,063
34	Machinery, except electrical....	27,849	27,532	27,505	27,617	27,178	28,027	28,737	28,382	27,976	27,771	27,505	27,503	27,423	28,654	28,193
35	Engines and turbines.....	58,071	58,130	58,097	57,116	56,519	56,695	59,994	58,779	57,585	58,137	57,764	56,671	60,068	60,075	58,353
351	Construction, mining, and material-handling equipment. Metalworking machinery.....	16,850	16,796	16,833	16,479	16,413	16,412	16,767	16,630	16,785	16,875	16,823	16,882	16,674	16,795	16,858
353	General industrial machinery...	9,749	9,491	9,186	8,780	8,057	7,968	8,877	8,423	8,041	9,798	9,481	9,159	8,710	8,922	8,356
354		6,658	6,836	6,990	6,922	7,257	7,586	7,798	7,143	6,757	6,598	6,754	6,887	7,728	7,329	7,116
356		6,272	6,253	6,322	6,083	6,172	6,519	7,183	7,098	7,239	6,272	6,272	6,265	6,016	7,075	7,027

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry group	Seasonally adjusted										Not seasonally adjusted ¹			
		Monthly			Quarterly			Monthly							
		Mar. 1981 ^p	Feb. 1981 ^r	Jan. 1981	Dec. 1980	III 1980	II 1980	I 1980	IV 1979	III 1979	Mar. 1981 ^p	Feb. 1981 ^r	Jan. 1981	Dec. 1980	Mar. 1980
36	INDUSTRY GROUP AND INDUSTRIES--Continued														
361, 2	Durable goods industries--Continued	41,572	41,074	40,452	39,710	38,534	38,830	37,944	35,631	34,858	41,484	41,108	40,423	39,374	37,863
363	Electrical machinery.....	8,282	8,197	8,094	7,883	7,875	8,000	7,657	7,531	7,418	8,295	8,213	8,080	7,770	7,669
365	Electrical transmission and distribution equipment.....	431	414	390	433	480	333	310	364	407	446	438	390	368	321
366	Radio and TV.....	487	523	349	313	438	416	395	342	599	445	496	317	310	360
367	Household appliances.....	21,244	20,815	20,600	20,004	18,659	18,365	17,592	16,123	15,803	21,207	20,949	20,803	20,131	17,560
37	Communication equipment.....	10,112	10,104	10,034	10,174	10,225	10,792	11,014	10,308	9,644	10,092	10,023	9,874	9,910	10,992
372, 6	Electronic components.....	115,032	113,921	113,627	112,805	113,058	109,611	105,642	102,906	98,840	115,723	115,131	115,267	113,449	106,182
373, 1	Transportation equipment.....	91,654	90,622	90,556	89,578	90,632	88,827	81,804	77,929	73,098	92,229	91,703	92,104	90,575	82,299
3731	Aircraft, missiles, and parts.....	14,352	14,282	14,046	14,032	13,203	11,205	11,237	11,297	11,146	14,437	14,286	14,005	13,742	13,299
3795	Shipbuilding and military tank vehicles.....	6,389	6,440	6,412	6,341	6,232	6,295	6,459	5,985	5,830	6,374	6,369	6,343	6,323	6,441
38	Instruments and related products.....	3,343	3,211	3,033	2,841	2,817	3,084	3,314	3,317	3,297	3,221	3,014	2,781	2,644	3,389
25	All other durable goods industries.....														
39															

^pPreliminary. ^rRevised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV, optical goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--comparable to the previous producers' capital goods and the defense products (old series) categories. Nondefense products--machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. Defense products are comparable to those published annually in the MA-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Oriented Industries"), for the specified industries.

The data are comparable to those published annually in the MA-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Oriented Industries"), for the specified industries. Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of previously established seasonal factors would have substantially distorted the current data since these seasonal factors reflect historical government purchasing patterns. Therefore, beginning in July 1977, new composite seasonal factors were developed by combining the existing end of fiscal year information with data for the previous calendar quarter (i.e., one quarter preceding the end of the fiscal year). These composite factors were applied to the unfilled orders data for each of the separately tabulated defense industries. This adjustment also modified the new orders data. Similar adjustments could not be made for nondefense government orders since such data are not compiled separately. This method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly				Not seasonally adjusted							
		Monthly				Dec. 1980	Monthly			Last 4 months				Monthly				
		Mar. 1981P	Feb. 1981P	Jan. 1981	II 1980		I 1980	IV 1979	III 1979	Mar. 1981P	Feb. 1981P	Jan. 1981	Dec. 1980	Mar. 1980	Feb. 1980	Jan. 1980	Dec. 1979	
36	INDUSTRY GROUPS AND INDUSTRIES--																	
361, 2	Continued																	
	Durable goods industries--																	
	Continued																	
36	Electrical machinery.....	22,845	22,844	22,567	22,135	22,095	21,861	21,620	20,598	19,462	22,948	22,720	22,237	21,763	21,729	21,291	20,726	20,241
361, 2	Electrical transmission and distribution equipment and industrial apparatus.....																	
363	Household appliances.....	3,978	3,988	3,923	3,904	3,955	3,982	3,868	3,770	3,637	4,000	3,981	3,918	3,888	3,890	3,912	3,813	3,758
365	Radio and TV.....	1,990	1,972	1,947	1,974	1,893	1,998	2,161	2,116	1,958	2,010	1,958	1,908	1,880	2,183	2,134	2,065	2,014
366	Communication equipment.....	8,704	8,761	8,691	8,437	8,426	7,992	7,741	7,095	6,588	8,762	8,761	8,577	8,348	7,799	7,507	7,301	7,005
367	Electronic components.....	3,457	3,517	3,459	3,475	3,383	3,386	3,240	3,099	2,897	3,481	3,507	3,428	3,437	3,263	3,216	3,110	3,068
37	Transportation equipment.....	36,823	36,629	36,375	35,229	33,950	32,688	31,447	29,916	28,638	37,121	36,900	36,276	34,655	31,709	30,910	30,388	29,511
371	Motor vehicles and parts.....	7,469	7,366	7,338	7,287	7,401	7,485	7,827	8,012	8,872	7,537	7,521	7,551	7,251	7,898	7,965	8,097	7,980
372, 6	Aircraft, missiles, and parts																	
3731	Shipbuilding and military tank vehicles.....	24,634	24,514	24,422	23,502	22,136	20,589	19,049	17,417	15,549	24,811	24,677	24,171	23,066	19,192	18,423	17,783	17,102
3795	Instruments and related products.....	2,883	2,855	2,690	2,577	2,383	2,386	2,130	2,165	2,034	2,907	2,746	2,579	2,430	2,146	2,044	2,060	2,052
38	Scientific and engineering.....	8,620	8,556	8,498	8,438	8,290	8,393	8,237	7,765	7,471	8,654	8,561	8,485	8,248	8,264	8,130	8,021	7,580
381-4	Photographic goods.....	6,185	6,143	6,049	6,051	5,890	5,859	5,597	5,291	5,021	6,229	6,167	6,091	5,972	5,636	5,494	5,417	5,217
386	All other durable goods	2,024	1,998	2,024	1,965	1,982	2,083	2,155	1,986	1,941	2,016	1,982	1,980	1,862	2,146	2,158	2,136	1,885
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¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks, and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the M-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Oriented Industries"), for the specified industries.

Table 5. VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP
(Millions of dollars)

Industry	Seasonally adjusted					Quarterly				Monthly					Not seasonally adjusted				
	Monthly					Quarterly				Monthly					Not seasonally adjusted				
	Mar. 1981 ^a	Feb. 1981 ^a	Jan. 1981	Dec. 1980	III 1980	II 1980	I 1980	IV 1979	III 1979	Mar. 1981 ^a	Feb. 1981 ^a	Jan. 1981	Dec. 1980	Mar. 1980	Feb. 1980	Jan. 1980	Dec. 1979	Nov. 1979	
TOTALS																			
All manufacturing industries.....	253,289	251,231	248,408	244,493	243,615	243,630	238,522	228,258	221,341	254,505	252,843	249,554	243,730	239,837	236,758	233,547	227,658		
Durable goods industries.....	166,718	166,278	164,938	161,907	160,691	160,404	157,127	151,689	146,048	168,322	167,426	164,833	160,308	158,721	156,470	154,097	150,321		
Stone, clay, and glass products.....	6,383	6,272	6,128	6,067	6,020	6,011	5,987	5,933	5,896	6,542	6,479	6,416	6,353	6,314	6,273	6,233	5,961		
Primary metals.....	21,520	21,436	21,023	20,283	20,187	20,886	20,387	19,803	19,033	21,437	21,491	21,325	20,634	20,303	20,427	20,390	20,153		
Fabricated metals.....	19,282	19,461	19,508	18,863	18,863	19,431	19,639	19,403	18,716	19,610	19,524	19,344	18,835	18,503	19,568	19,271	18,997		
Nonferrous metals.....	38,958	38,637	38,352	37,107	36,940	37,609	36,624	35,527	34,527	39,517	39,283	38,749	38,227	37,959	37,959	37,428	36,530		
Electrical machinery.....	22,865	22,844	22,567	22,135	22,095	22,861	22,620	22,598	22,462	22,948	22,928	22,727	22,763	22,729	22,726	22,241	20,241		
Transportation equipment.....	36,823	36,629	36,375	35,229	35,229	36,688	36,437	36,437	36,437	37,421	37,421	37,421	37,421	37,421	37,421	37,421	37,421		
Instruments and related products.....	8,620	8,586	8,498	8,393	8,290	8,393	8,237	7,765	7,471	8,654	8,561	8,485	8,248	8,130	8,130	8,021	7,580		
All other durable goods industries.....	12,287	12,237	12,202	12,166	12,279	12,046	12,181	11,936	11,766	12,493	12,466	12,230	11,991	12,386	12,247	12,150	11,768		
Non-durable goods industries.....	86,571	84,953	83,470	82,586	82,924	83,226	81,395	76,569	75,293	86,183	85,417	84,721	83,422	81,116	80,288	78,450	77,337		
Chemicals and allied products.....	19,488	19,175	18,810	18,516	18,489	19,330	18,672	16,982	16,492	19,696	19,556	19,194	18,853	18,853	18,776	18,227	17,280		
Petroleum and coal products.....	10,096	9,706	8,585	8,396	8,894	8,763	8,062	6,581	6,343	9,564	8,994	8,737	8,702	7,647	7,133	7,056	6,816		
Rubber and plastics products, n.e.c.....	4,738	4,630	4,498	4,474	4,474	4,817	4,934	4,777	4,940	4,845	4,762	4,579	4,505	5,078	4,964	4,970	4,804		
All other non-durable goods industries.....	52,249	51,922	51,577	51,200	51,071	50,316	49,702	48,229	47,518	52,078	52,105	52,211	51,360	49,536	49,415	49,197	48,437		
MATERIALS AND SUPPLIES																			
All manufacturing industries.....	84,495	84,695	83,654	81,876	80,925	82,515	82,314	79,114	75,770	84,660	84,550	84,180	82,391	82,495	81,551	81,023	79,638		
Durable goods industries.....	51,224	51,488	50,788	49,507	49,007	50,177	50,347	48,857	46,417	51,054	51,137	50,852	49,600	50,224	49,924	49,712	48,963		
Stone, clay, and glass products.....	2,532	2,537	2,467	2,456	2,456	2,336	2,277	2,227	2,034	2,552	2,546	2,488	2,468	2,468	2,420	2,266	2,239		
Primary metals.....	8,379	8,610	8,561	8,046	8,090	8,194	7,919	7,411	6,988	8,211	8,489	8,656	8,396	8,756	7,850	7,903	7,742		
Fabricated metals.....	6,686	6,865	6,469	6,401	6,187	6,620	6,713	6,807	6,575	6,761	6,702	6,437	6,330	6,916	6,832	6,700	6,736		
Nonferrous metals.....	10,698	10,809	10,832	10,846	10,908	11,116	10,963	10,732	9,918	10,779	10,785	10,822	10,877	11,064	10,989	10,788	10,788		
Electrical machinery.....	6,218	6,288	6,280	6,051	6,166	6,171	6,166	5,936	5,634	6,183	6,222	6,200	6,021	6,190	6,068	5,960	5,906		
Transportation equipment.....	9,233	8,904	8,682	8,415	7,770	8,321	8,501	8,351	8,064	8,412	8,912	8,715	8,171	8,398	8,180	8,132	8,144		
Instruments and related products.....	2,479	2,501	2,605	2,422	2,475	2,501	2,611	2,403	2,292	2,453	2,465	2,587	2,422	2,584	2,594	2,399	2,399		
All other durable goods industries.....	4,999	4,994	4,932	4,870	5,050	4,920	5,019	4,990	4,932	5,003	5,011	4,947	4,913	5,023	5,141	5,209	5,029		
Non-durable goods industries.....	33,271	33,207	32,866	32,369	31,918	32,338	31,967	30,257	29,353	33,606	33,413	33,328	32,791	32,271	31,627	31,311	30,675		
Chemicals and allied products.....	7,290	7,292	7,078	7,078	7,078	7,078	7,078	7,078	7,078	7,310	7,302	7,172	7,098	6,954	6,571	6,375	6,088		
Petroleum and coal products.....	2,247	2,172	2,045	1,971	2,156	1,942	1,839	1,709	1,771	2,281	2,132	2,060	1,958	1,866	1,817	1,701	1,700		
Rubber and plastics products, n.e.c.....	1,831	1,822	1,778	1,745	1,571	1,825	1,847	1,729	1,704	1,798	1,763	1,769	1,775	1,814	1,766	1,852	1,758		
All other non-durable goods industries.....	21,903	21,921	21,965	21,575	21,489	21,728	21,338	20,750	20,004	22,217	22,116	22,327	21,960	21,637	21,473	21,383	21,129		
WORK IN PROCESS																			
All manufacturing industries.....	90,230	89,917	89,377	87,033	85,934	84,502	82,272	78,611	75,698	90,959	90,423	89,071	85,934	82,969	81,194	79,843	77,669		
Durable goods industries.....	76,515	76,487	76,207	74,060	73,209	71,891	69,585	66,837	63,810	77,398	77,042	75,943	73,073	70,427	68,958	67,808	65,997		
Stone, clay, and glass products.....	967	933	907	873	875	875	860	836	827	1,026	1,026	1,026	1,026	1,026	1,026	1,026	1,026		
Primary metals.....	7,676	7,510	7,359	6,949	6,919	7,398	6,936	7,013	6,906	7,700	7,540	7,436	6,935	6,935	6,888	6,897	7,012		
Fabricated metals.....	7,900	7,924	8,277	8,052	7,935	8,034	8,221	8,085	7,717	7,988	7,988	8,121	7,761	7,761	7,818	7,939	7,789		
Nonferrous metals.....	17,808	17,813	17,741	17,409	17,706	17,716	17,451	16,952	16,407	17,997	18,022	17,883	17,355	17,665	17,499	17,405	16,908		
Electrical machinery.....	11,762	11,742	11,491	11,363	11,090	10,729	10,518	10,064	9,435	11,825	11,743	11,403	11,148	10,581	10,387	10,098	9,862		
Transportation equipment.....	23,581	23,811	23,792	22,748	22,449	20,469	19,155	17,832	16,647	23,980	23,980	23,528	22,499	19,498	18,910	18,524	17,693		
Instruments and related products.....	3,913	3,911	3,759	3,879	3,792	3,851	3,678	3,445	3,312	3,963	3,925	3,772	3,783	3,723	3,647	3,533	3,350		
All other durable goods industries.....	2,908	2,843	2,881	2,787	2,743	2,819	2,766	2,610	2,561	2,919	2,896	2,896	2,788	2,774	2,673	2,611	2,612		
Non-durable goods industries.....	13,715	13,430	13,170	12,973	12,725	12,611	12,687	11,774	11,888	13,561	13,381	13,128	12,861	12,542	12,236	12,035	11,672		
Chemicals and allied products.....	2,868	2,727	2,689	2,590	2,633	2,682	2,707	2,444	2,671	2,890	2,736	2,687	2,602	2,725	2,729	2,646	2,452		
Petroleum and coal products.....	2,773	2,932	2,868	2,734	2,616	2,445	2,367	2,048	1,872	2,890	2,788	2,805	2,705	2,295	2,094	2,046	2,029		
Rubber and plastics products, n.e.c.....	895	850	821	789	775	775	769	769	769	888	884	884	806	862	867	853	853		
All other non-durable goods industries.....	7,179	6,901	6,812	6,860	6,884	6,709	6,744	6,446	6,491	7,093	6,893	6,792	6,748	6,660	6,546	6,408	6,338		
FINISHED GOODS																			
All manufacturing industries.....	78,564	76,619	75,377	75,584	76,756	76,613	73,936	70,532	69,873	78,886	77,870	76,303	75,405	74,373	74,013	72,681	70,351		
Durable goods industries.....	38,979	38,303	37,943	38,340	38,475	38,336	37,195	35,994	35,821	39,870	39,267	38,038	37,633	38,069	37,588	36,577	35,361		
Stone, clay, and glass products.....	2,884	2,802	2,754	2,738	2,774	2,970	2,850	2,752	2,575	2,964	2,955	2,796	2,683	2,928	2,832	2,656	2,531		
Primary metals.....	5,465	5,316	5,123	5,290	5,178	5,292	5,332	5,3											

Table 6. PERCENT CHANGES AND REVISION RATES OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year ago Mar. 1980	Average monthly	
	Feb.- Mar. 1981	Jan. 1981- Feb. 1981	Dec. 1980- Jan. 1981	First quarter 1981	Fourth quarter 1980	Third quarter 1980	Apr. 1980- through Mar. 1981		Mar. 1980 through Feb. 1981	Mar. 1976-1980
Shipments:										
All manufacturing industries.....	+0.6	+0.3	+1.1	+0.7	+1.4	+2.6	+0.7	0.3	0.3	0.2
Durable goods industries.....	+1.6	+1.0	+0.3	+1.0	+1.5	+3.5	+0.7	0.4	0.3	0.2
Nondurable good industries.....	-0.4	-0.4	+2.0	+0.4	+1.3	+1.7	+0.7	0.2	0.5	0.3
Inventories:										
All manufacturing industries.....	+0.8	+1.1	+1.6	+1.2	+0.1	-	+0.5	0.0	0.1	0.1
New orders:										
All manufacturing industries.....	+1.3	+0.4	-	+0.6	+1.5	+3.9	+0.7	0.0	0.4	0.4
Durable goods industries.....	+2.9	+1.1	-1.6	+0.8	+1.5	+5.9	+0.7	0.0	0.5	0.6
Nondurable goods industries.....	-0.3	-0.3	+1.6	+0.3	+1.4	+1.9	+1.0	0.1	0.5	0.2
Unfilled orders:										
Durable goods industries.....	+0.8	+0.4	+0.4	+0.5	+0.6	+0.5	+0.3	0.1	0.1	0.3

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980
All manufacturing industries, total.....	1.56	1.55	1.54	1.53	3.44	3.48	3.51	3.52
Durable goods industries, total.....	2.02	2.05	2.06	2.02	4.10	4.15	4.18	4.18
Stone, clay, and glass products.....	1.43	1.36	1.35	1.33	0.62	0.61	0.61	0.62
Primary metals.....	1.83	1.72	1.68	1.61	2.49	2.33	2.33	2.44
Fabricated metals.....	1.89	1.93	1.99	1.88	2.96	2.98	3.07	2.96
Machinery, except electrical.....	2.49	2.55	2.48	2.60	4.01	4.10	4.04	4.20
Electrical machinery.....	2.03	2.09	2.11	2.13	3.70	3.76	3.79	3.82
Transportation equipment.....	2.16	2.36	2.37	2.22	11.70	13.32	13.31	12.83
Instruments and related products.....	2.24	2.25	2.30	2.26	1.66	1.69	1.74	1.70
Nondurable goods industries, total.....	1.08	1.05	1.03	1.04	0.66	0.67	0.68	0.70
Food and kindred products.....	0.98	0.96	0.94	0.95	(X)	(X)	(X)	(X)
Tobacco products.....	3.15	2.88	3.13	2.79	(X)	(X)	(X)	(X)
Textile mill products.....	1.44	1.45	1.46	1.55	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.25	1.25	1.24	1.21	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.27	1.28	1.23	1.19	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.62	0.55	0.51	0.55	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.39	1.33	1.23	1.25	(X)	(X)	(X)	(X)

(NA) Not available. P Preliminary. R Revised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

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For these SMSA's quarterly data are provided on the number of housing units. . .

Authorized, by building permit

Started

Completed

Under construction

Authorized, but not yet started

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